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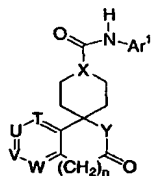
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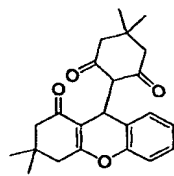
- (51) International Patent Classification<sup>7</sup>: A61K CO., LTD. [JP/JP]; 2-3, Nihombashi Honcho 2-Chome, Chuo-ku, Tokyo 103-8416 (JP).
- (21) International Application Number: PCT/US2003/022077 (72) Inventors; and (75) Inventors/Applicants (for US only): MACNEIL, Douglas, J. [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US). MCINTYRE, James, H. [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US). VAN DER PLOEG, Leonardus, H. T. [NL/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US). ISHIHARA, Akane [JP/JP]; 2-3, Nihombashi Honcho, 2-Chome, Chuo-ku, Tokyo 103-8416 (JP).
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60/417,999 11 October 2002 (11.10.2002) US (74) Common Representative: MERCK & CO., INC.; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US).
- (71) Applicants (for all designated States except US): MERCK & CO., INC. [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US). BANYU PHARMACEUTICAL (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,

[Continued on next page]

(54) Title: COMBINATION THERAPY FOR THE TREATMENT OF OBESITY

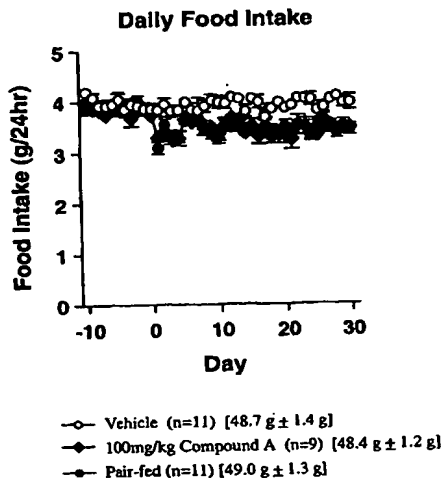


(I)



(II)

(57) Abstract: The present invention relates to compositions comprising a NPY5 antagonist of formula I or II and an anti-obesity agent, useful for the treatment and prevention of diabetes, obesity and obesity-related disorders. The present invention further relates to methods of treating or preventing obesity and obesity-related disorder in a subject in need thereof by administering a composition of the present invention. The present invention further provides for pharmaceutical compositions, medicaments, and kits useful in carrying out these methods.





GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

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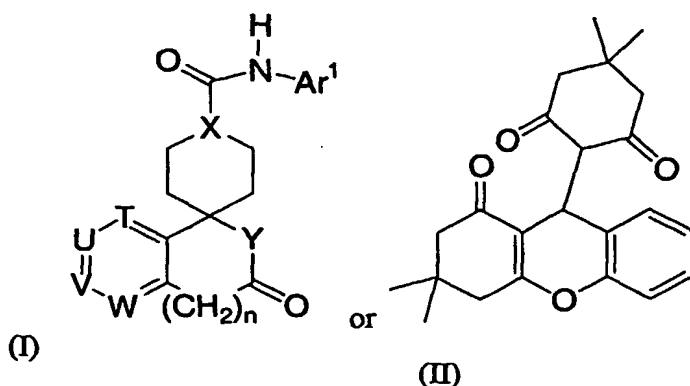
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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/22077

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A01N 43/16, A61K 31/438, 31/506

US CL : 514/278, 253, 275, 454

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 514/278, 253, 275, 454

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EAST: NPY antagonist, Mc4r agonist, obesity, zonisamide

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No.          |
|------------|--|--------------------------------|
| Y          | US 6,258,837 B1 (FUKAMI et al.) 10 July 2001 (10.07.01), see entire document, especially column 2, lines 36-40; column 5, lines 25-30.       | 1-11, 15, 18, 21-33, 47, 48-55 |
| Y          | US 5,908,830 A (SMITH et al.) 01 June 1999 (01.06.99) column 9, lines 8-20.  | 16, 17, 20, 34-46              |
| Y          | US 6,326,375 B1 (FUKAMI et al.) 04 December 2001 (04.12.01), see entire document, especially column 31, lines 44-60; column 32, lines 25-30. | 1-55                           |
| Y          | US 2001/0025038 A1 (COFFIN et al.) 27 September 2001 (27.09.01), claim 19; page 5 paragraph [0078].  | 1-15, 18, 19, 21-33, 47-55     |

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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